

PC57.152

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 08-May-2011

PAR Approval Date: 16-Jun-2011

PAR Expiration Date: 31-Dec-2012

Status: Modification to a Previously Approved PAR for the Revision of a Standard

Root PAR: PC57.152 **Approved on:** 19-May-2008

Root Project: 62-1995

1.1 Project Number: PC57.152

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

2.1 Title: Guide for Diagnostic Field Testing of Fluid Filled Power Transformers, Regulators, and Reactors

3.1 Working Group: Standards - Diagnostic Field Testing - Xfrms & Reactors Working Group
(PE/TR/Std-WGC57.152)

Contact Information for Working Group Chair

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None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Transformers (PE/TR)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 08/2011

4.3 Projected Completion Date for Submittal to RevCom: 01/2012

5.1 Approximate number of people expected to be actively involved in the development of this project: 50

5.2 Scope: This guide describes diagnostic field tests and measurements that are performed on fluid filled power transformers and regulators. Whenever possible, shunt reactors are treated in a similar manner to transformers. The tests are presented systematically in categories depending on the subsystem of the unit being examined. A diagnostic chart is included as an aid to identifying the various subsystems. Additional information is provided regarding specialized test and measuring techniques. Interpretive discussions are also included in several areas to provide additional insight on the particular test, or to provide guidance on acceptance criteria. These discussions are based on the authors' judgment of accepted practice. It should be noted that the results of several types of tests should be interpreted together to diagnose a problem. Manufacturer's acceptance criteria and other IEEE standards in the C57-series take precedence over the content of this guide.

Old Scope: This guide describes diagnostic tests and measurements that are performed in the field on oil-immersed power transformers and regulators. Whenever possible, shunt reactors are treated in a similar manner to transformers. The tests are presented systematically in categories depending on the subsystem of the unit being examined. A diagnostic chart is included as an aid to identifying the various subsystems. Additional information is provided regarding specialized test and measuring techniques. Interpretive discussions are also included in several areas to provide additional insight on the particular test, or to provide guidance on acceptance criteria. These discussions are based on the authors' judgement of accepted practice. It should be noted that sometimes the results of several types of tests should be interpreted together to diagnose a problem. Manufacturer's acceptance criteria should also be consulted as it may take precedence over the criteria in this guide.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This guide will not include a Purpose statement.

Old Purpose: The purpose is to update IEEE 62, and migrate in to the C57 series (as C57.152) and bring under the continuous revision process of the Transformers

Committee.
{THIS PURPOSE WILL NOT APPEAR IN THR DRAFT}.

5.5 Need for the Project: This Working Group is revising and updating IEEE 62, Guide for Diagnostic Field Testing of Electric Power Apparatus - Part I: Oil Filled Power Transformers, Regulators and Reactors. With this Revision, we will migrate into the Transformers Committee C57 series (as C57.152) and bring it under our Committee's continuous revision process.

5.6 Stakeholders for the Standard: Utilities and industrial power transformer owners, users, manufacturers and installers.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): Changes in the Scope were: 1) added the word "field" in the first sentence; 2) Changed oil-immersed to fluid filled; and 3) added the last sentence on order of precedence.